

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD2104</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2104 Peters Pocket Tract</b>	<b>U</b>	<b>7.40</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	15.85	1.60	22.25	300.68%				
Trim / Thin Trees	0.05		0.05	0.68%				
Encroachments	0.01		0.01	0.14%				
Erosion / Bank Caving	0.06		0.06	0.81%				
Crown Surface / Depressions / Rutting	10.35	6.00	34.35	464.19%				
Operations & Maintenance Manuals	0.07		0.07	0.95%				
Emergency Supplies & Equipment	0.07		0.07	0.95%				
Flood Preparedness & Training	0.07		0.07	0.95%				
<b>LMA Totals:</b>	<b>26.54</b>	<b>7.60</b>	<b>56.94</b>	<b>769.46%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2104 Peters Pocket Tract**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway			Bank	Unit Miles
Unit No. 01 Cache Slough			Left	7.40
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/02/2012 - 05/02/2012		-	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Ken Machado RD 2104			
	Chris Niederhauser Chance Land & Livestock			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough						Left	7.40		Herman Phillips
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1			Earthen Levee	Flood Preparedness & Training	CR M Ma	Inspector Comments: District need to have their staff Flood Fight Certified.	°	°	12
DWR ID: DWR_RD2104_01_s_2012_12									
2			Earthen Levee	Operations & Maintenance Manuals	CR M Ma		°	°	14
DWR ID: DWR_RD2104_01_f_2012_14									
3			Earthen Levee	Emergency Supplies & Equipment	CR M Ma	Inspector Comments: District need to have Flood Fight Supplies in storage.	°	°	40
DWR ID: DWR_RD2104_01_s_2012_40									
4	0.00	0.00	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.308296 ° -121.758594 °	38.308296 ° -121.758594 °	42 Y
DWR ID: DWR_RD2104_01_s_2012_42									
5	0.00	6.83	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: RD 2104 has no all weather road. Due to wet levee conditions it was not able to be completely inspected during fall 2012 inspections. Conditions appeared to be the same as spring 2012, no maintenance was done.	°	°	34
DWR ID: DWR_RD2104_01_f_2012_34									
6	0.02	0.96	Earthen Levee	Vegetation	CR M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.308008 ° -121.758610 °	38.299242 ° -121.749754 °	2
DWR ID: DWR_RD2104_01_s_2012_2									
7	0.19	0.22	Earthen Levee	Vegetation	WS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305912 ° -121.757520 °	38.305583 ° -121.757220 °	8 Y
DWR ID: DWR_RD2104_01_s_2012_8									
8	0.19	0.96	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305825 ° -121.757571 °	38.299250 ° -121.749770 °	4
DWR ID: DWR_RD2104_01_s_2012_4									
9	0.20	0.22	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305837 ° -121.757463 °	38.305547 ° -121.757178 °	17
DWR ID: DWR_RD2104_01_s_2012_17									
10	0.23	5.08	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305498 ° -121.757151 °	38.318437 ° -121.744451 °	20
DWR ID: DWR_RD2104_01_s_2012_20									
11	0.27	0.27	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.305022 ° -121.756692 °	38.305022 ° -121.756692 °	1
DWR ID: DWR_RD2104_01_s_2012_1									
12	0.30	0.30	Earthen Levee	Trim / Thin Trees	LS M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.304657 ° -121.756570 °	38.304657 ° -121.756570 °	18
DWR ID: DWR_RD2104_01_s_2012_18									
13	0.31	0.31	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.304662 ° -121.756520 °	38.304662 ° -121.756520 °	3
DWR ID: DWR_RD2104_01_s_2012_3									

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough							Left	7.40		Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
14	0.35	0.47	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.304057 ° -121.756488 °	38.302517 ° -121.756322 °	21
DWR ID: DWR_RD2104_01_s_2012_21										
15	0.42	0.49	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.303130 ° -121.756533 °	38.302260 ° -121.755987 °	5
DWR ID: DWR_RD2104_01_s_2012_5										
16	0.42	0.67	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.303058 ° -121.756542 °	38.300238 ° -121.754347 °	6
DWR ID: DWR_RD2104_01_s_2012_6										
17	0.95	0.95	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.299220 ° -121.749828 °	38.299220 ° -121.749830 °	7
DWR ID: DWR_RD2104_01_s_2012_7										
18	0.96	5.08	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.299363 ° -121.749820 °	38.318437 ° -121.744451 °	30
DWR ID: DWR_RD2104_01_s_2012_30										
19	1.11	1.11	Earthen Levee	Trim / Thin Trees	LS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.297886 ° -121.748133 °	38.297886 ° -121.748133 °	31
DWR ID: DWR_RD2104_01_s_2012_31										
20	1.33		Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	38.296552 ° -121.744965 °	° °	45
DWR ID: DWR_RD2104_01_s_2012_45										
21	1.36	1.37	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.296237 ° -121.744327 °	38.296158 ° -121.744262 °	9
DWR ID: DWR_RD2104_01_s_2012_9										
22	1.37	1.38	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.296168 ° -121.744355 °	38.296110 ° -121.744300 °	13
DWR ID: DWR_RD2104_01_s_2012_13										
23	1.40	7.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	U Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	° °	° °	27 Y
DWR ID: DWR_RD2104_01_s_2012_27										
24	1.43	1.49	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.295732 ° -121.743288 °	38.295697 ° -121.742408 °	10
DWR ID: DWR_RD2104_01_s_2012_10										
25	1.43	1.60	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: The growth needs to be removed from the levee section. This unit has not had any maintenance since the last inspection.	38.295730 ° -121.743288 °	38.294835 ° -121.741192 °	11 Y
DWR ID: DWR_RD2104_01_s_2012_11										
26	1.52	3.14	Earthen Levee	Vegetation	CR	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.295738 ° -121.742033 °	38.297566 ° -121.730175 °	32
DWR ID: DWR_RD2104_01_s_2012_32										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough							Left	7.40		Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
27	1.57	1.60	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.295263 ° -121.741415 °	38.294915 ° -121.741277 °	22 Y
								DWR ID: DWR_RD2104_01_s_2012_22		
28	1.64	1.64	Earthen Levee	Encroachments	LS	M Ma	MA : Material Inspector Comments: During the spring 2012 inspection, this encroachment hadn't been removed from the levee toe.	38.293747 ° -121.739126 °	38.293747 ° -121.739126 °	23 Y
								DWR ID: DWR_RD2104_01_s_2012_23		
29	1.69	2.60	Earthen Levee	Vegetation	CR	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: This unit has not improved since the last inspection, nothing has been done. 2012.	38.294125 ° -121.740428 °	38.294290 ° -121.726933 °	15 Y
								DWR ID: DWR_RD2104_01_s_2012_15		
30	2.08	2.09	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	38.292027 ° -121.734575 °	38.291947 ° -121.734453 °	16 Y
								DWR ID: DWR_RD2104_01_s_2012_16		
31	2.32	3.14	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.291940 ° -121.730687 °	38.297485 ° -121.730149 °	35 Y
								DWR ID: DWR_RD2104_01_s_2012_35		
32	2.79	2.80	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.323780 ° -121.752410 °	38.323730 ° -121.752430 °	33 Y
								DWR ID: DWR_RD2104_01_s_2012_33		
33	3.30	3.30	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.299679 ° -121.730469 °	38.299679 ° -121.730469 °	46 Y
								DWR ID: DWR_RD2104_01_s_2012_46		
34	3.37	5.08	Earthen Levee	Vegetation	CR	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.300572 ° -121.730410 °	38.318438 ° -121.744451 °	37 Y
								DWR ID: DWR_RD2104_01_s_2012_37		
35	3.37	3.37	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.300571 ° -121.730411 °	38.300571 ° -121.730411 °	36 Y
								DWR ID: DWR_RD2104_01_s_2012_36		
36	4.21	4.70	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: The District has not done any maintenance to the levee since last inspection, it remains unsatisfactory. Photos takes to show the land side, water side and the crown roadway overgrown. 2012.	38.297456 ° -121.738944 °	38.318412 ° -121.744876 °	19 Y
								DWR ID: DWR_RD2104_01_s_2012_19		
37	4.58	4.65	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: This levee is overgrown and is in need of maintenance. There are weeds taller than 5-feet tall on the levee section.	38.313130 ° -121.739023 °	38.313872 ° -121.739830 °	25 Y
								DWR ID: DWR_RD2104_01_s_2012_25		
38	4.88	4.88	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.319559 ° -121.747085 °	38.319559 ° -121.747085 °	24 Y
								DWR ID: DWR_RD2104_01_s_2012_24		

* Location	** Rating	+ Issue Type
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough						Left	7.40		Herman Phillips

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
39	4.90	4.90	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.319812 ° -121.747434 °	38.319812 ° -121.747434 °	29
DWR ID: DWR_RD2104_01_s_2012_29										
40	5.03	5.03	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	38.321582 ° -121.748546 °	38.321582 ° -121.748546 °	41
DWR ID: DWR_RD2104_01_s_2012_41										
41	5.51	6.75	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.322340 ° -121.748377 °	38.316815 ° -121.758227 °	26
DWR ID: DWR_RD2104_01_s_2012_26										
42	5.95	6.58	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.325074 ° -121.754512 °	38.319323 ° -121.758251 °	39
DWR ID: DWR_RD2104_01_s_2012_39										
43	5.95	6.63	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.325074 ° -121.754511 °	38.318590 ° -121.758209 °	38
DWR ID: DWR_RD2104_01_s_2012_38										

**\* Location**

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**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough	Left	7.40		Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

RD 2104 Looking downstream from gate. Photo taken 5-2-2012.

phillips\_f\_20120911\_340.jpg



Levee Mile Report Line	7
Start Levee Mile	0.19
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 0.19. Soft cedar need to be removed from levee slopes. 11-17-2010

phillips\_f\_20120911\_327.jpg



Levee Mile Report Line	7
Start Levee Mile	0.19
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 2104 Unsatisfactory wild growth on waterward slope. Photo taken 11-15-2011.

phillips\_f\_20120911\_328.jpg



**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough	Left	7.40		Herman Phillips

Levee Mile Report Line	23
Start Levee Mile	1.40
End Levee Mile	7.40
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Overgrown crown roadway. Photo taken 5-2-2012.

phillips\_f\_20120911\_336.jpg



Levee Mile Report Line	25
Start Levee Mile	1.43
End Levee Mile	1.60
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shown here was listed with a U rating. The waterside is completely overgrown from shoulder to beyond waterside toe. The crown has weeds 2-feet tall.

phillips\_f\_20120911\_329.jpg



Levee Mile Report Line	25
Start Levee Mile	1.43
End Levee Mile	1.60
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Overgrown shoulder and slope. Photo taken 5-2-2012.

phillips\_f\_20120911\_330.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough	Left	7.40		Herman Phillips

Levee Mile Report Line	28
Start Levee Mile	1.64
End Levee Mile	1.64
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking at the material within 10-foot of landward toe levee mile 1.64 RD 2104. Photo taken 4-14-2011

phillips\_f\_20120911\_334.jpg



Levee Mile Report Line	29
Start Levee Mile	1.69
End Levee Mile	2.60
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee 1.69 to 2.60 crown has not been sterilized.

phillips\_f\_20120911\_331.jpg



Levee Mile Report Line	36
Start Levee Mile	4.21
End Levee Mile	4.70
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream landside of RD 2104 from levee mile 4.21 at unsatisfactory growth slopes and crown roadway. Photo taken 4-14-2011.

phillips\_f\_20120911\_332.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough	Left	7.40		Herman Phillips

Levee Mile Report Line	36
Start Levee Mile	4.21
End Levee Mile	4.70
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Levee mile 4.21-4.70. Photo taken 11-15-2011.

phillips\_f\_20120911\_333.jpg



Levee Mile Report Line	38
Start Levee Mile	4.88
End Levee Mile	4.88
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion noted at levee mile 4.88 made by livestock along landside slope. Photo taken 4-14-2011.

phillips\_f\_20120911\_335.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement